Programming Exercise 4

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Write a C program to list all files whose name matches the filter. Inputs to the program as run time arguments: directory and filename (need to support wildcard)

Example: a.out /home/Ubuntu/abc1.txt

Example: a.out /home/Ubuntu/abc*.txt

Code:

```
#include (stdio.h)
#include <stdlib.h>
#include <dirent.h>
#include (string.h>
#include <frmatch.h>
int main(int argo. char *argu[]) {
    DIR *dir;
    struct dirent *ent;
    char *dirname, *pattern;
    if (argo != 3) {
        printf("Usage: %s <directory> <filename>\n". argv[0]);
        return 1;
    dirname = argv[1];
    pattern = argv[2];
    dir = opendir(dirname);
    if (dir == NULL) {
        printf("Could not open directory '%s'\n", dirname);
        return 1;
    while ((ent = readdir(dir)) != NULL) {
        if (fnmatch(pattern, ent->d_name, 0) == 0) {
            printf("Xs\n".ent->d_name);
        >
    closedir(dir);
    return 0;
```

Output:

